Welcome

Restoration Advisory Board Meeting

Robins Air Force Base

June 10, 2004

Restoration Advisory Board
Meeting
Robins Air Force Base

JUNE 10, 2004

Theme**:**
Wetlands Restoration

Robins AFB

1997 Environmental Excellence Award Winner

Restoration Advisory Board

Welcome and Program Introduction

Mr. Jim Harden

Community Co-Chair

Terms Used

- National Priorities List (NPL) – US EPA’s list of key hazardous sites identified for possible long-term remedial action under Superfund. The list is based primarily on the score a site receives from the Hazard Ranking System (HRS)
- Operable Unit (OU) – Each of a number of activities undertaken as part of a Superfund site clean-up
- Performance Based Contracting – Restoration contracting in which standards involve clear criteria; contractor methods to achieve standards are up to contractor, and payment is tied to attainment of performance standards

Terms Used

- Record of Decision – A public document that explains what clean-up alternatives will be used at an NPL site
- Solid Waste Management Unit (SWMU) – A defined area recognized by Robins AFB and the regulatory agency where contaminants are being cleaned up
- Trichloroethylene (TCE) – A chlorinated solvent routinely used in industrial applications through the 1970s and now a contaminant of concern
- Volatile Organic Compounds (VOCs) – A class of chemicals that can be removed from groundwater by transfer to the vapor phase

Horse Pasture Update

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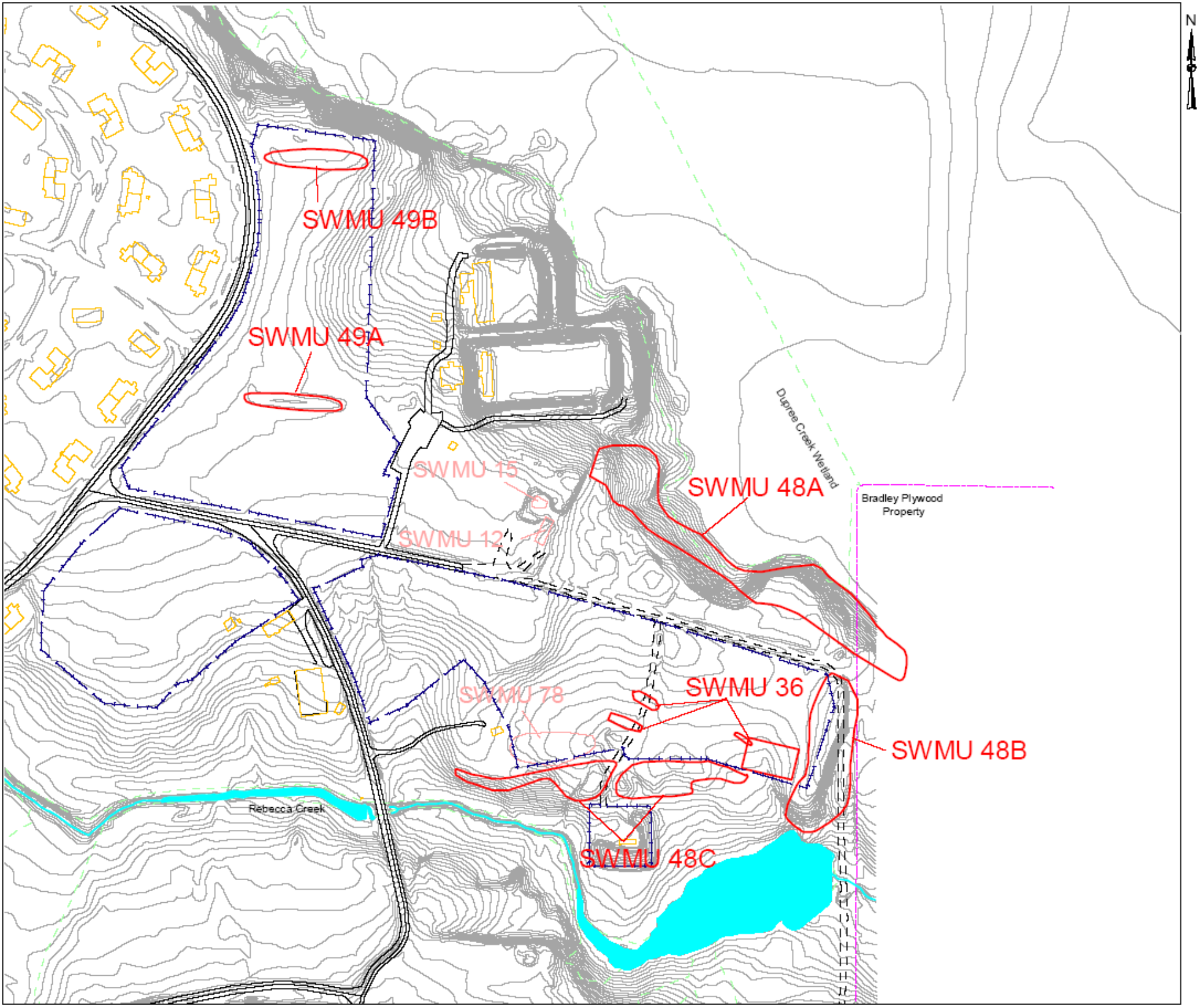
Mr. Fred Otto, WR-ALC/EMR

June 10, 2004

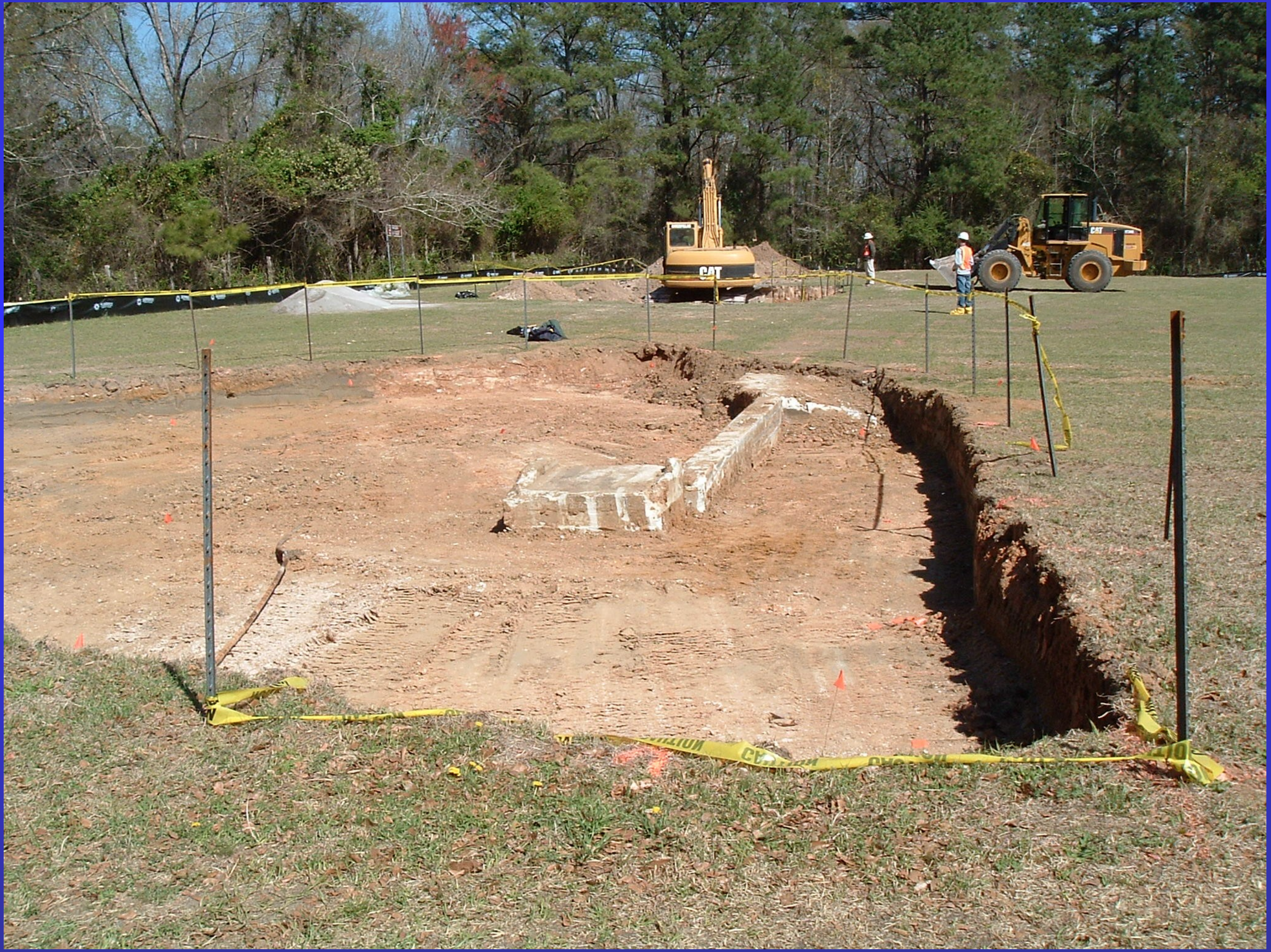
HORSE PASTURE OVERVIEW

- Performance-Based Contract with BEM/TetraTech
- Began soil excavation/disposal during Feb 2004
- RAB visited SWMU 49 excavation March 11, 2004
- Soil excavation on-going at SWMU 36

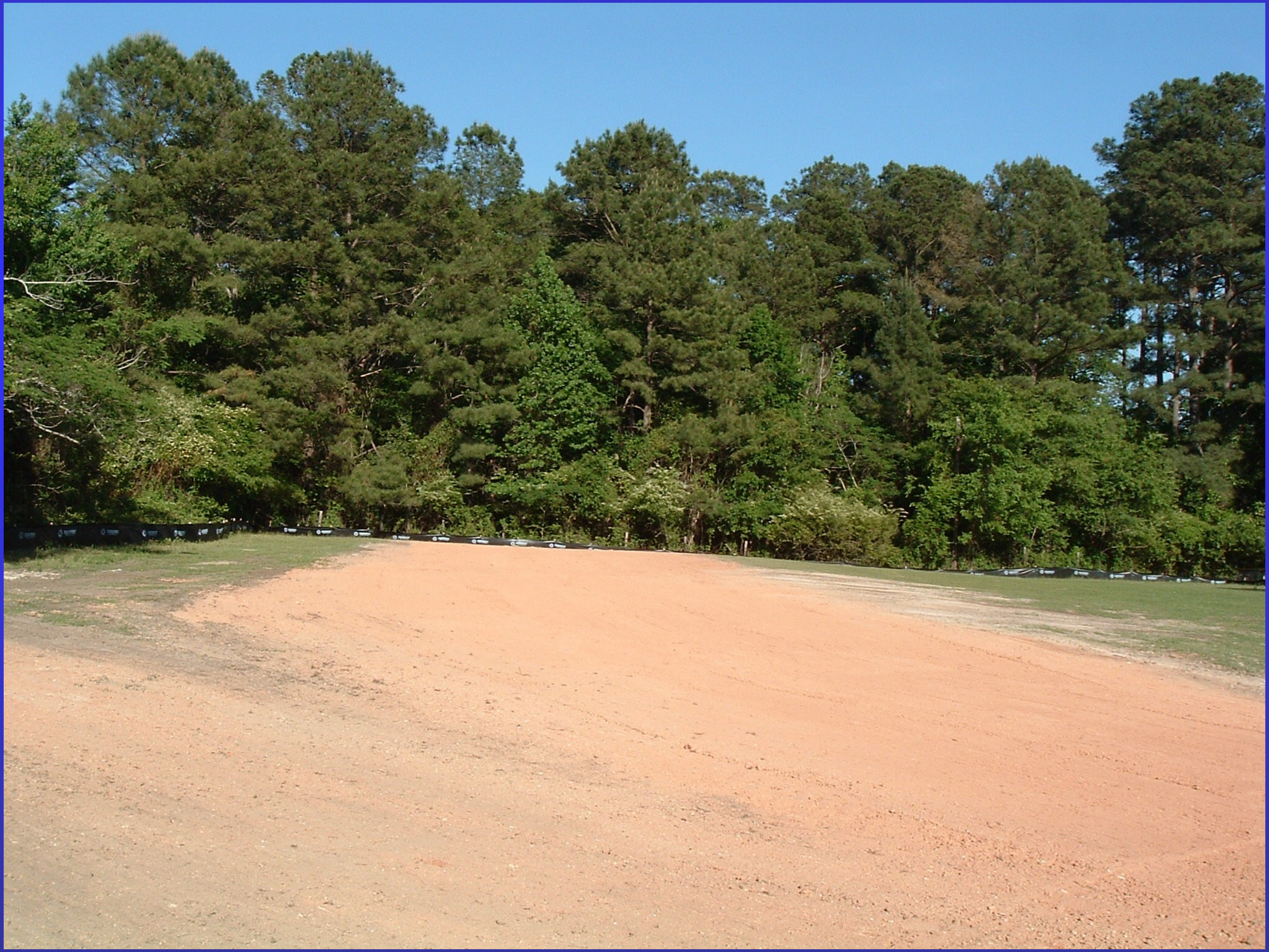
HORSE PASTURE SITE MAP


N
SWMU 49B
SWMU 49A
SWMU 15
SWMU 12
SWMU 48A
Dupree Creek Wetland
Bradley Plywood Property
SWMU 78
SWMU 36
SWMU 48B
Rebecca Creek
SWMU 48C

SWMU 49 EXCAVATION



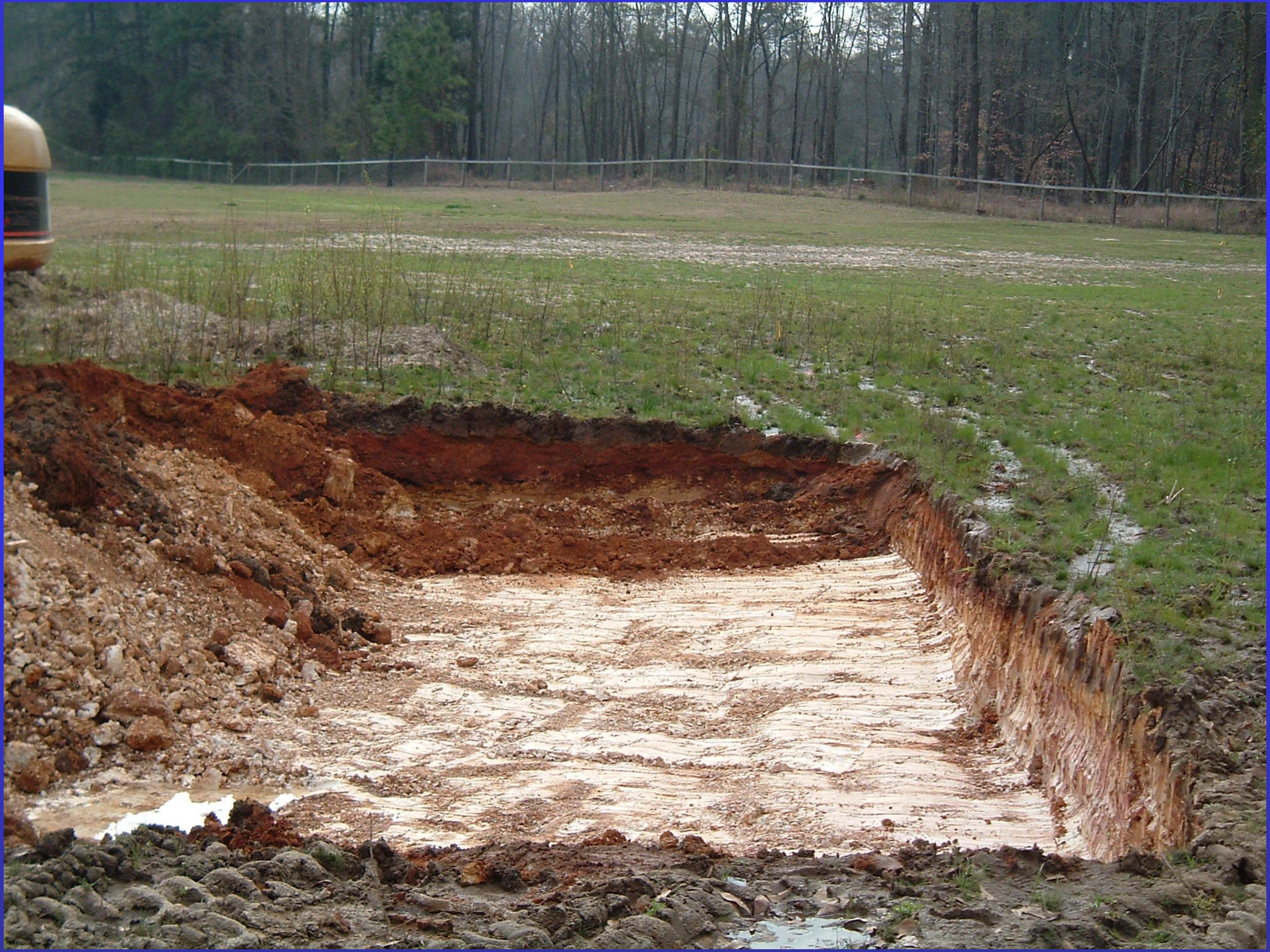
SWMU 49
BACKFILL COMPLETED



SWMU 36
BEFORE EXCAVATION

SWMU 36 FENCE

SWMU 36 AREA 5 EXCAVATION



SWMU 36 AREA 5 EXCAVATION

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320C L
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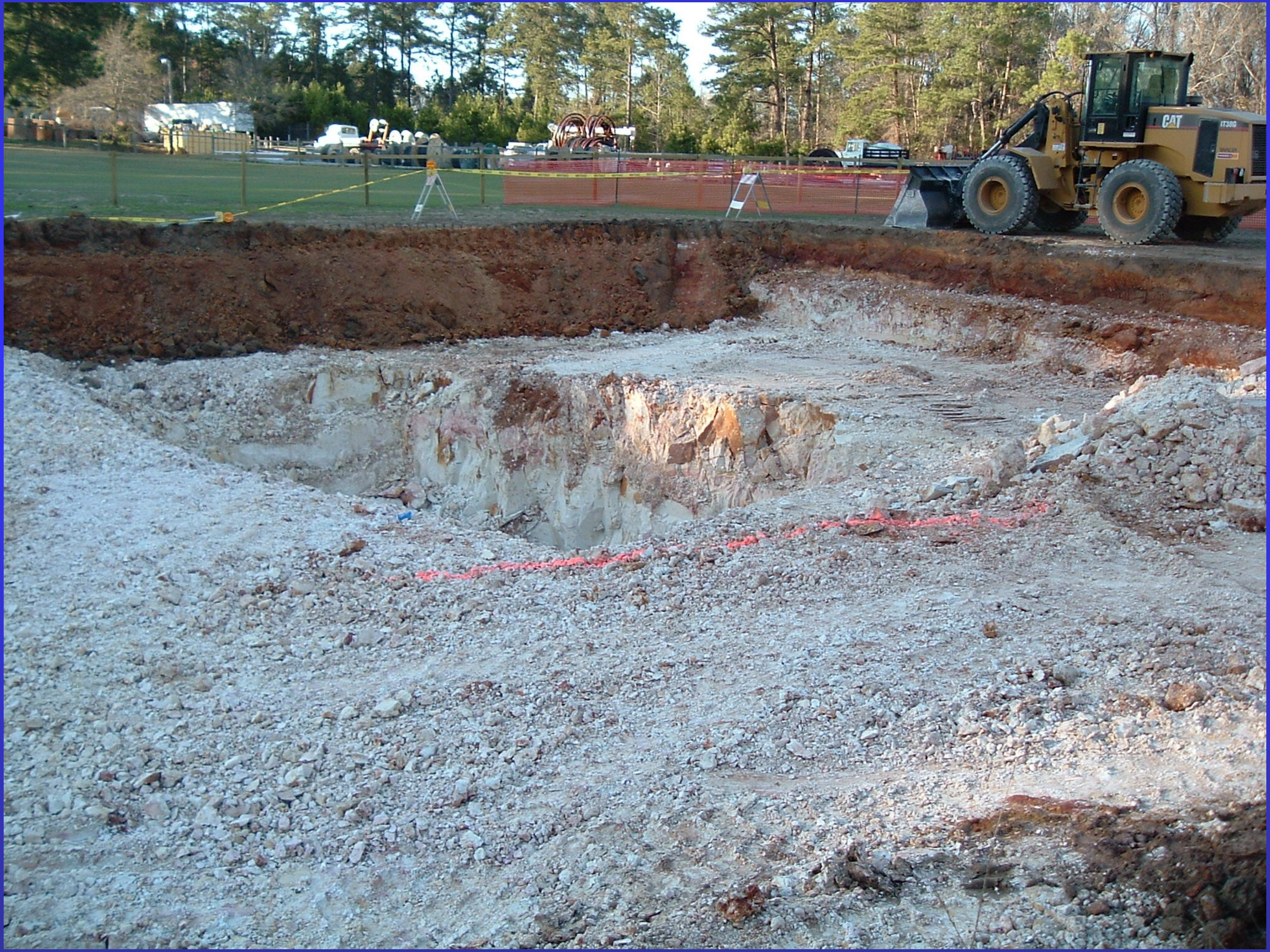
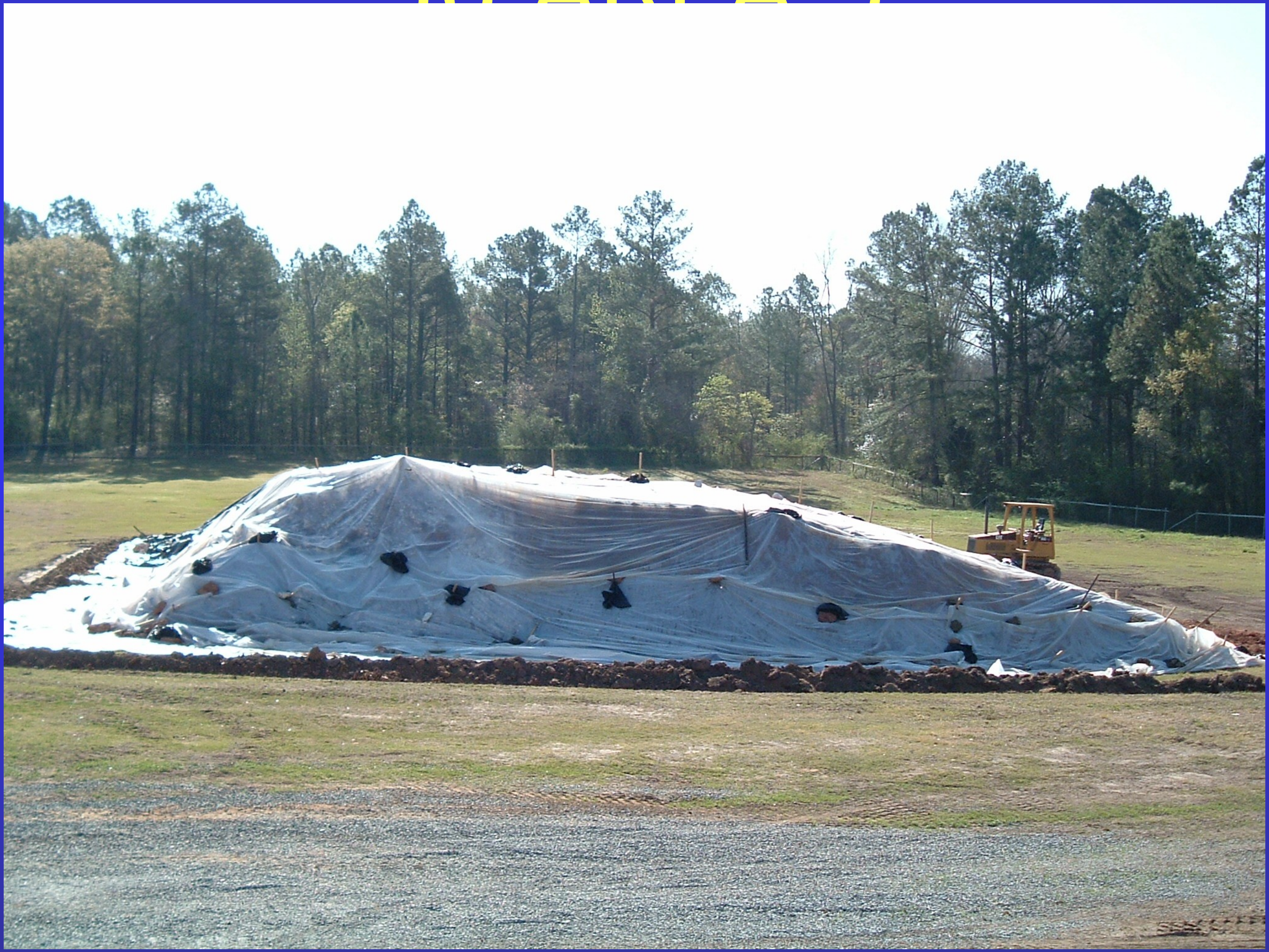
SWMU 36 AREA 5 EXCAVATION

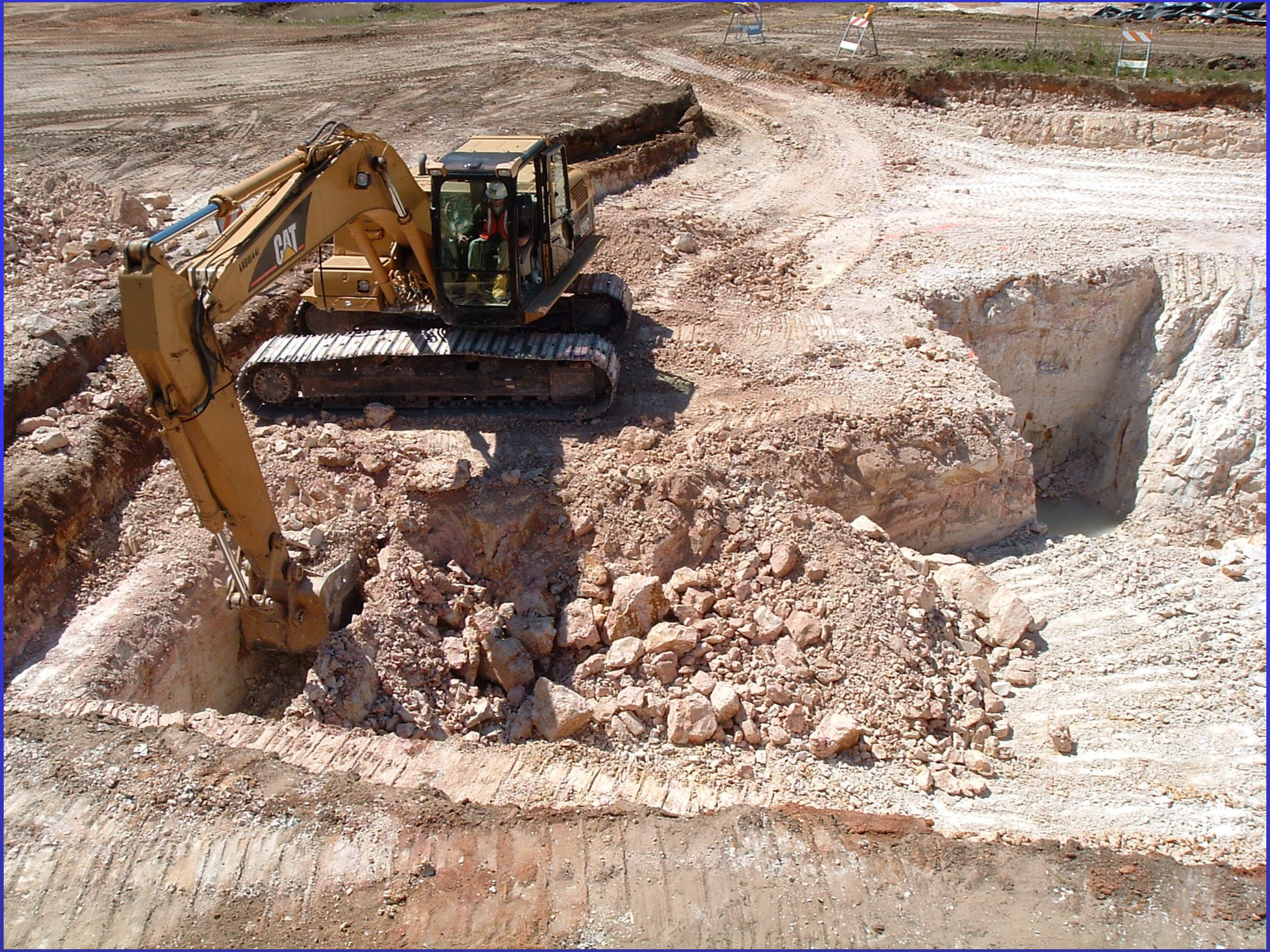


EXCAVATED MATERIAL STOCKPILE FROM SWMU 36 AREA 5

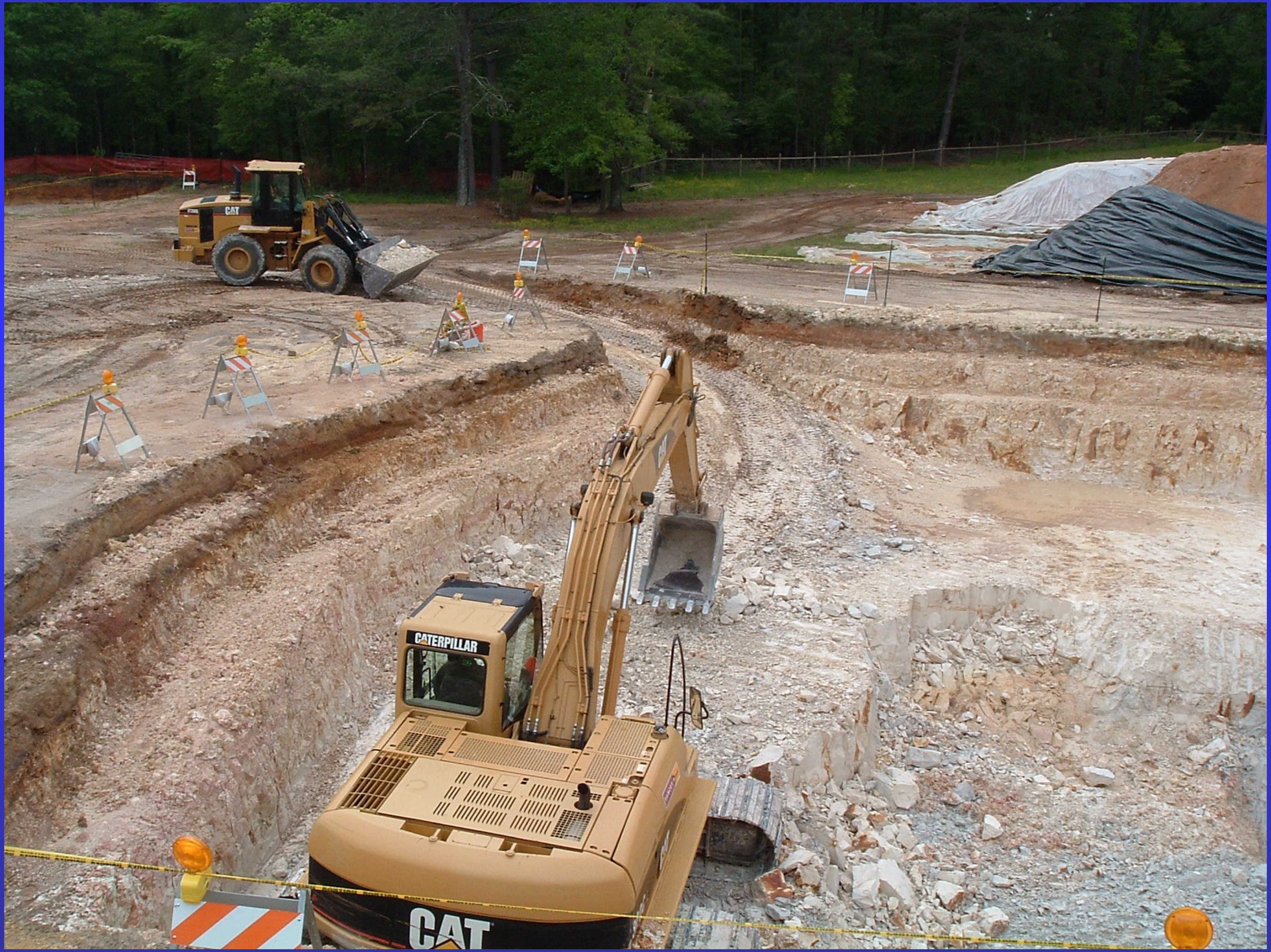


LOAD OUT FROM SWMU 36 STOCKPILE

SWMU 36 AREA 5 EXCAVATION



SWMU 36 AREA 5 VEHICLE ACCESS RAMP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SWMU 36 AREA 5 EXCAVATION

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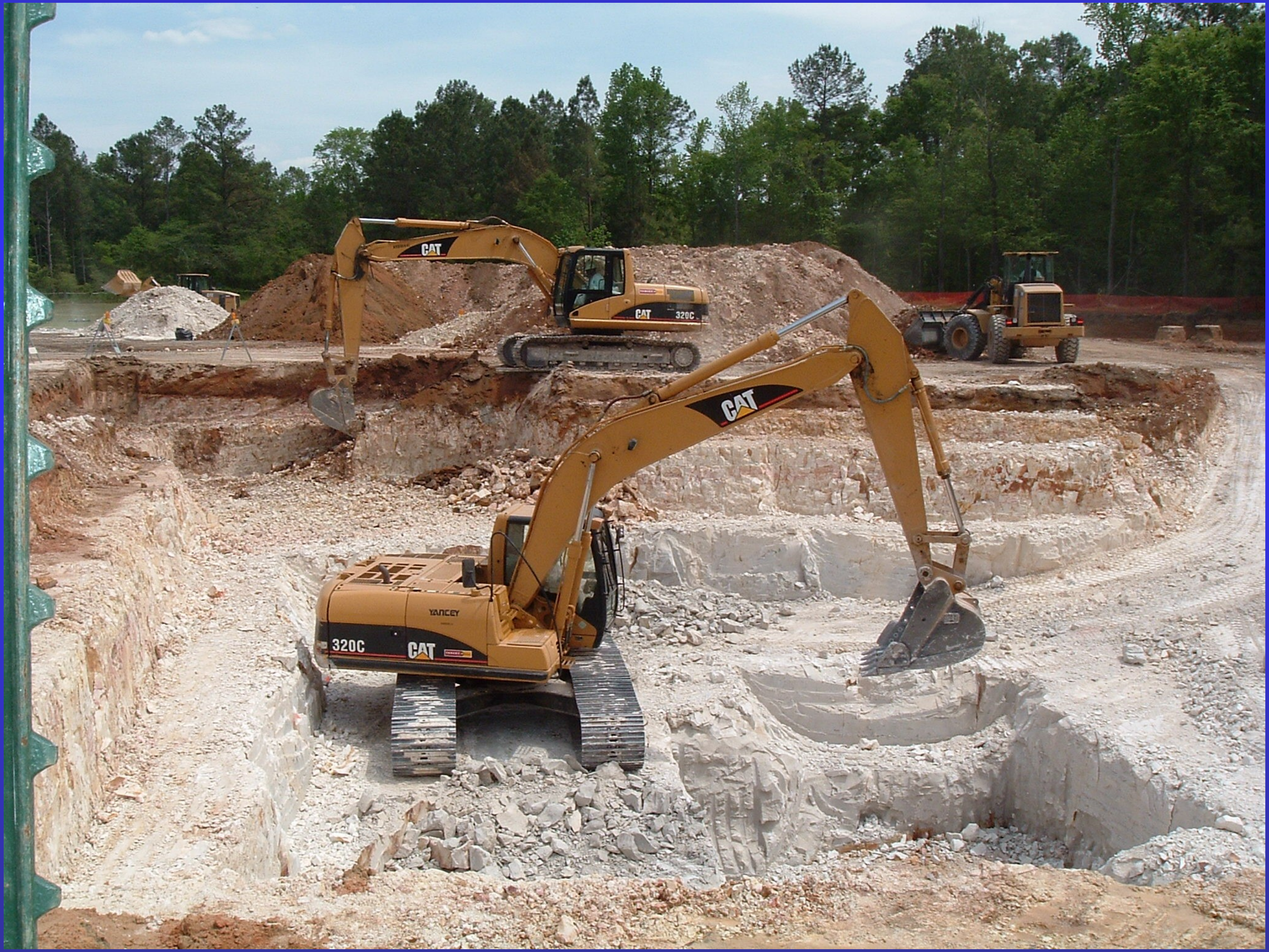
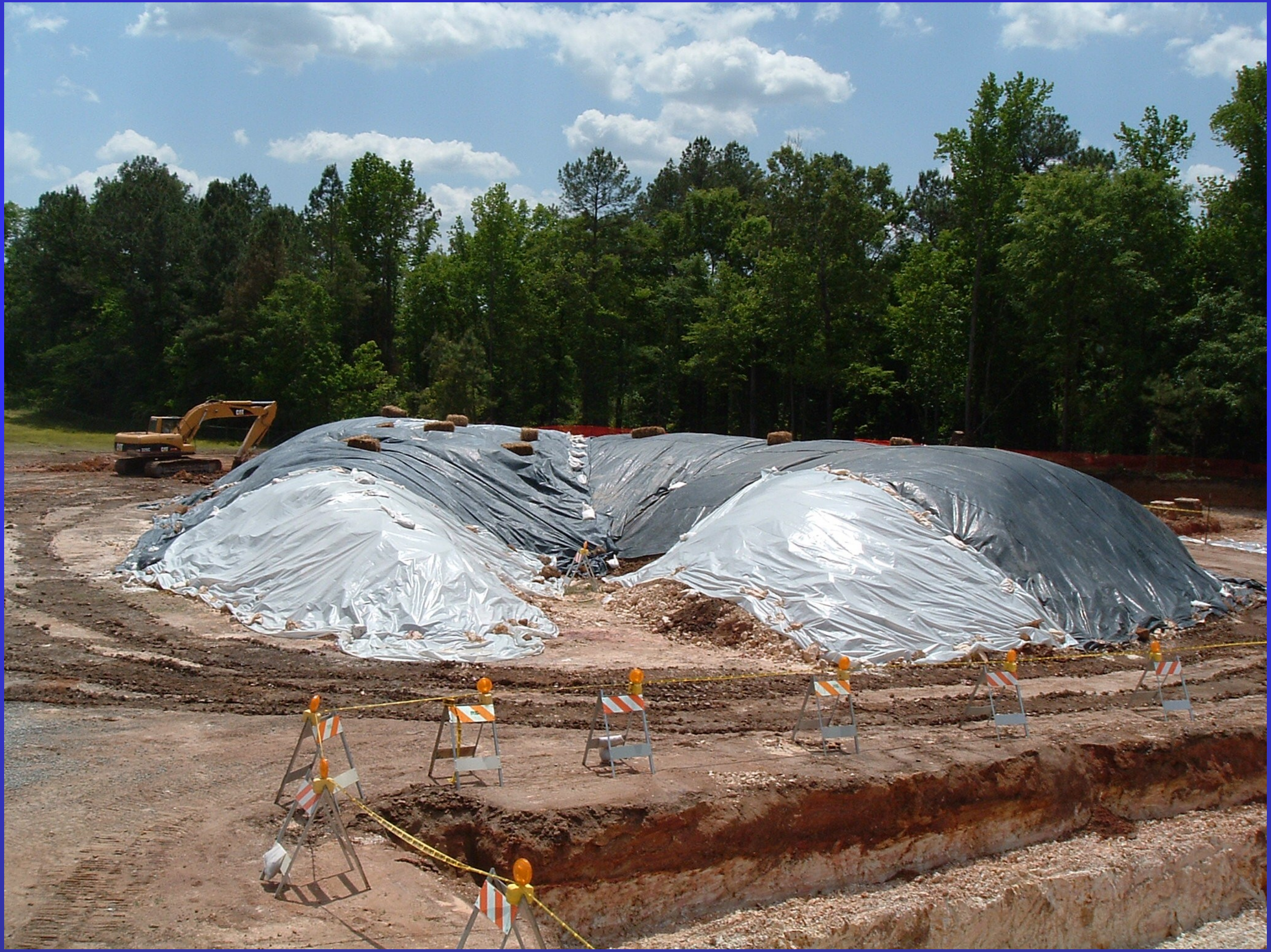
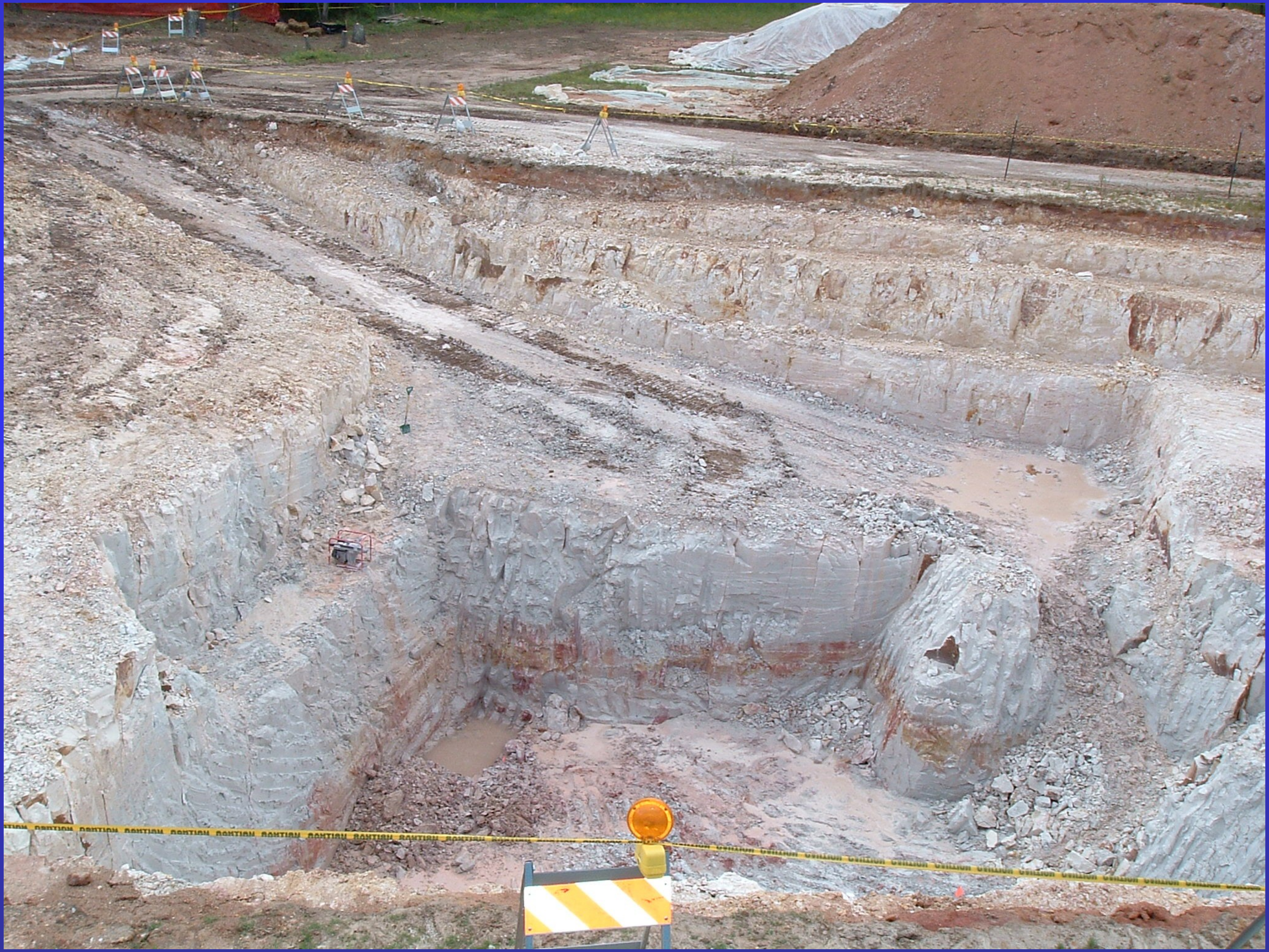
SWMU 36 AREA 5 EXCAVATION



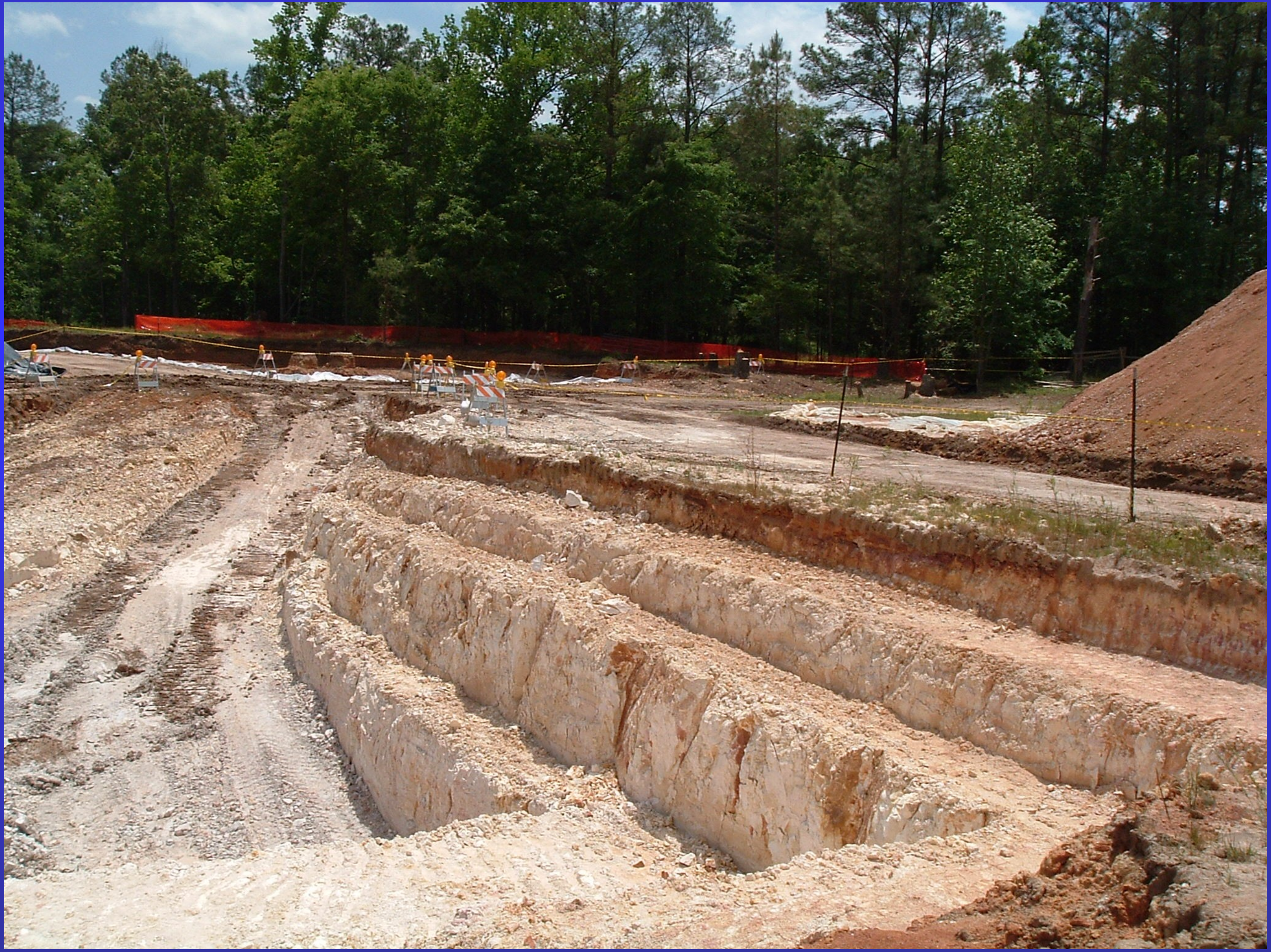
STOCKPILE FROM SWMU 36



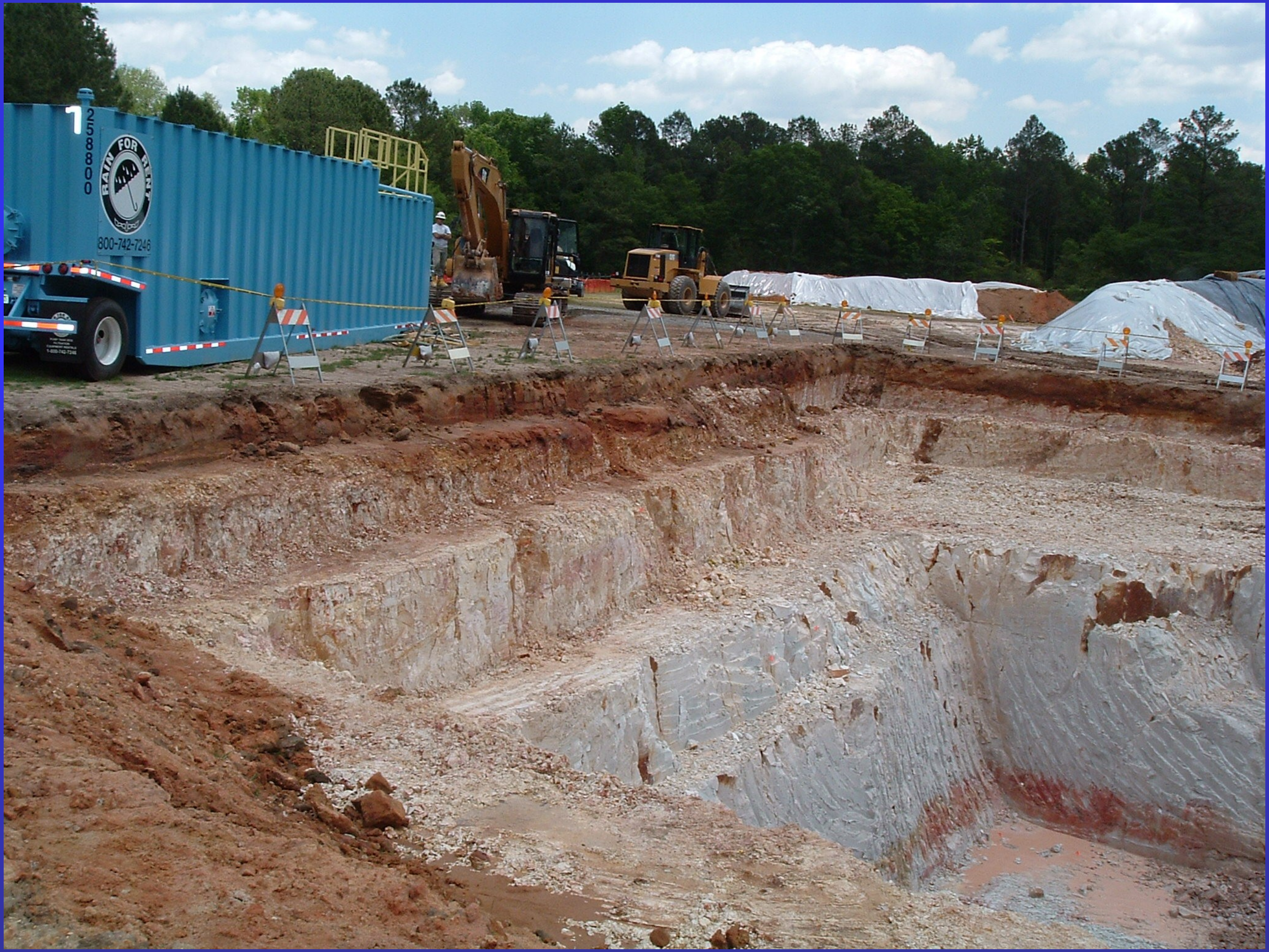
COMPLETE SWMU 36 AREA 5 EXCAVATION



COMPLETE SWMU 36 AREA 5 EXCAVATION

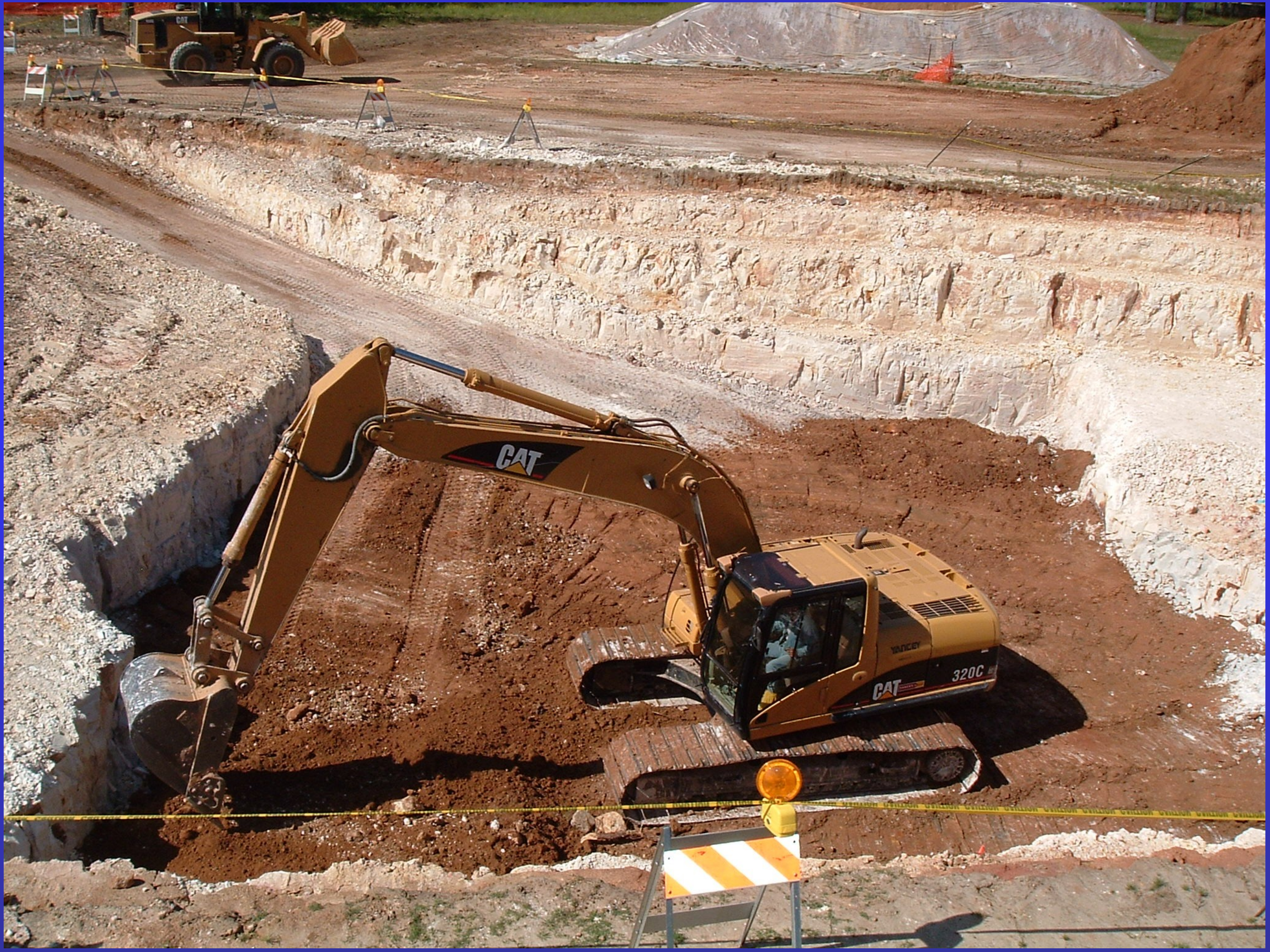


COMPLETE SWMU 36 AREA 5 EXCAVATION


258800
RAIN FOR RENT
800-742-7246

BEGINNING OF BACKFILL AT SWMU 36 AREA 5

BACKFILL OF SWMU 36 AREA 5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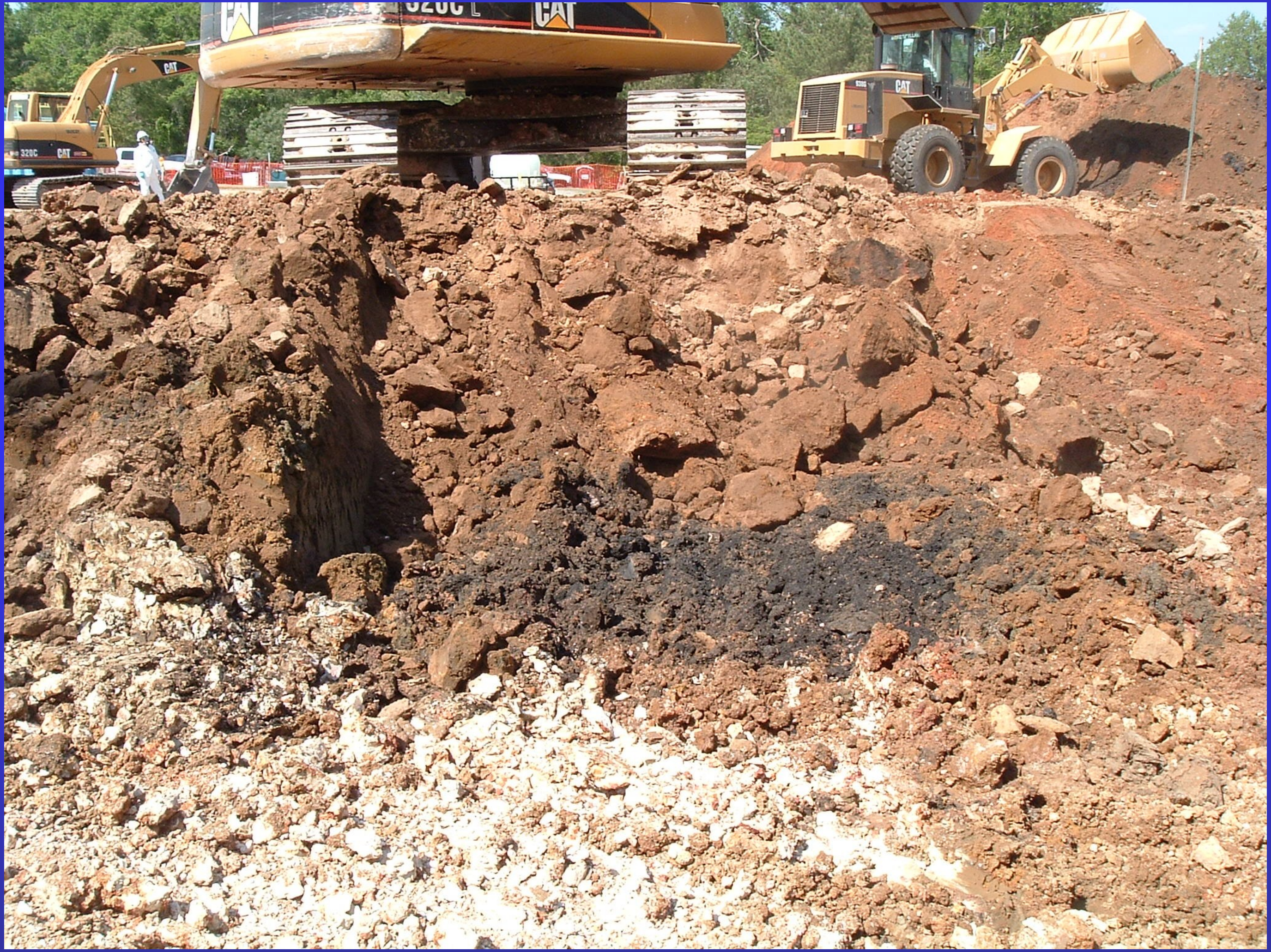
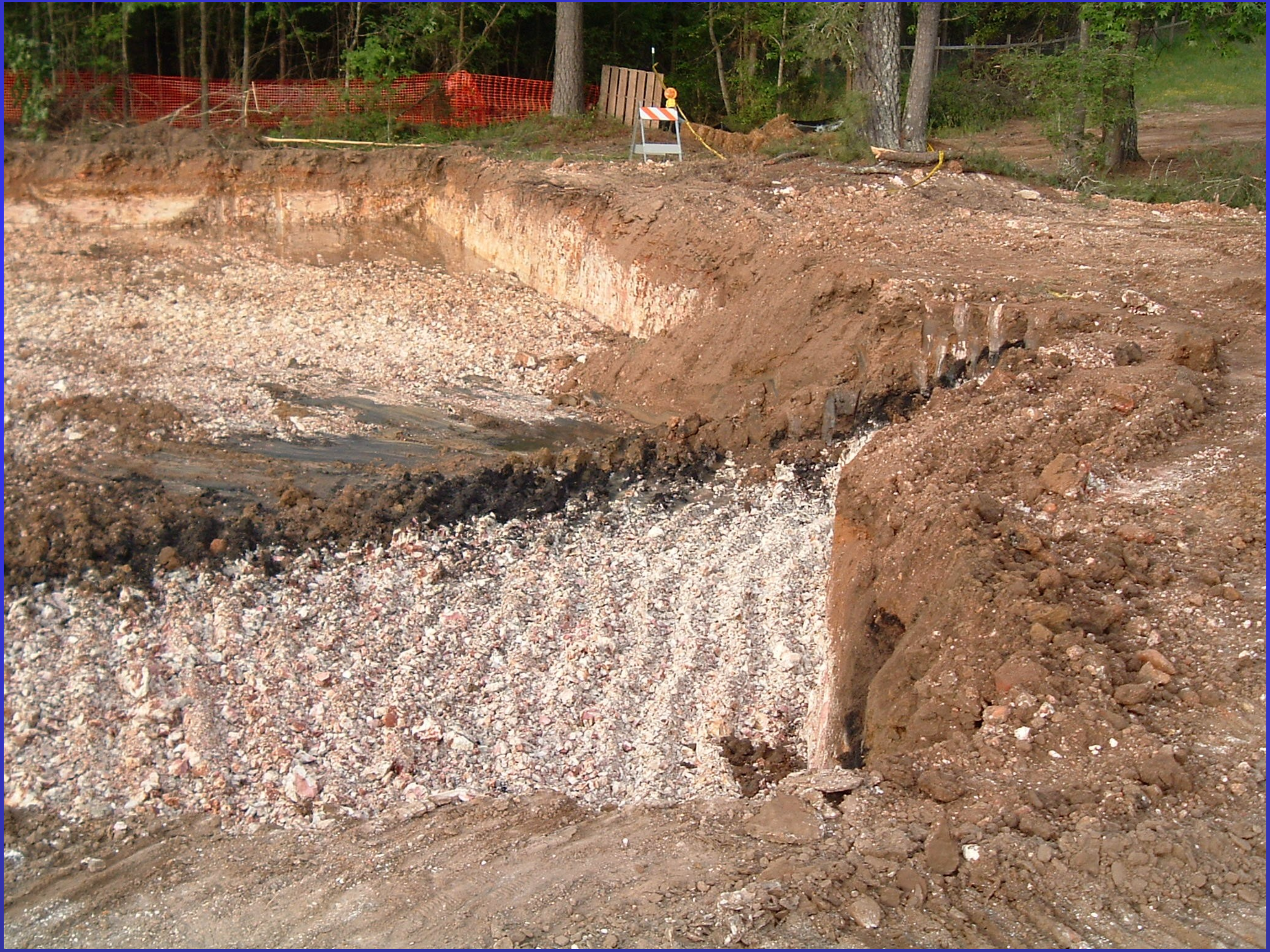
SWMU 36 AREA 4 EXCAVATION

SWMU 36 AREA 4 BURN PIT



SWMU 36 AREA 4 BURN PIT



HORSE PASTURE SUMMARY

- Completed excavation and backfill at SWMU 49
- Completed excavation and backfill at SWMU 36 Area 5
- Excavation on-going at SWMU 36 Area 4

HORSE PASTURE SUMMARY

- About 1500 truck loads of contaminated soil hauled off-site to date
- Anticipate completion of soil excavation in Sept 2004

OU2 Wetlands Remediation

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Mr. Gary Dickison, Earth Tech

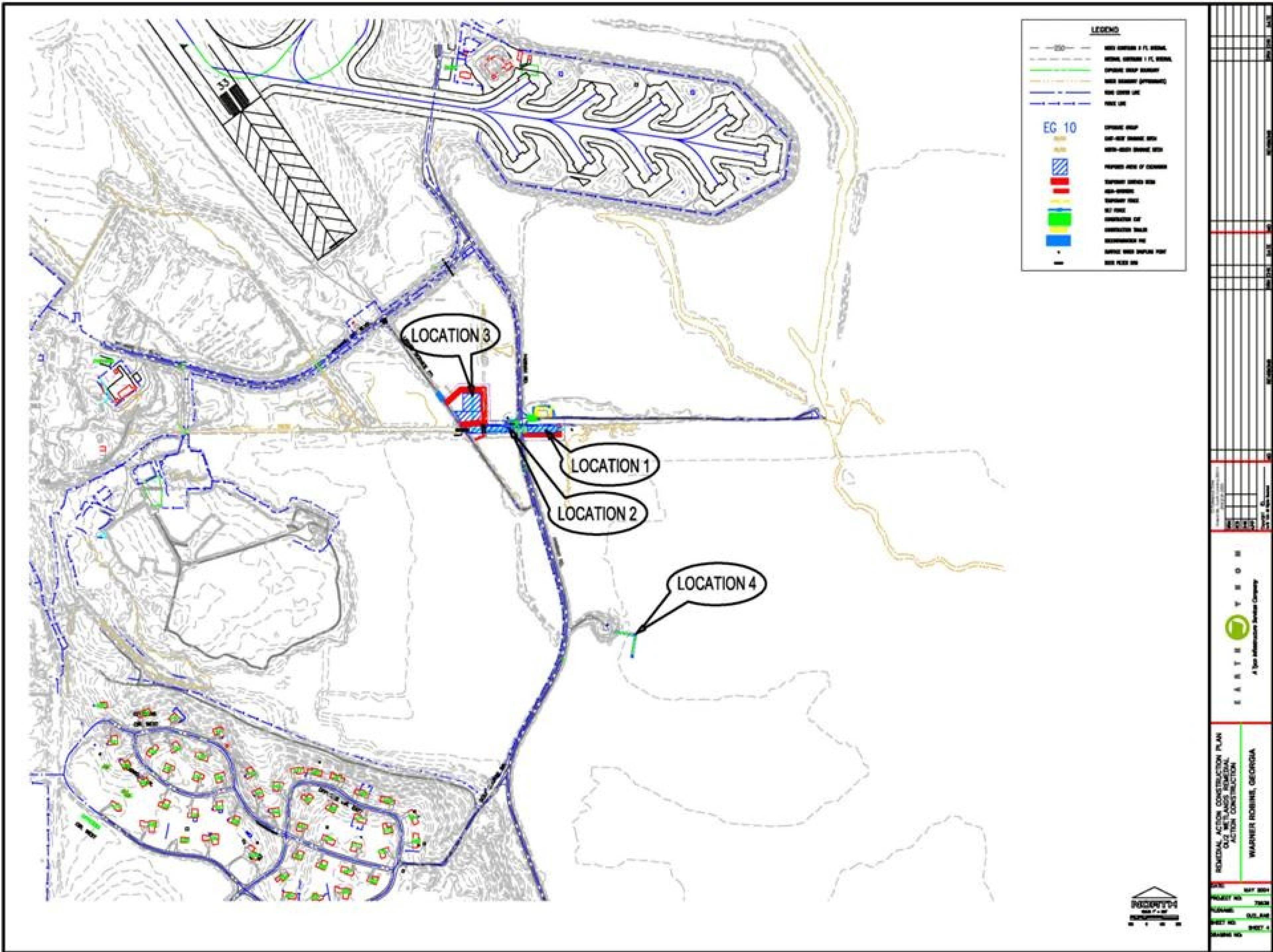
June 10, 2004

PROJECT TEAM

- WR-ALC/EM
- Environmental Management Resources, Inc. (EMR)
- Earth Tech

REMEDIATION OBJECTIVE

- Remove contaminated sediments from Operable Unit 2 (OU2) by
  - Removing 3 feet of sediment from three segments of the North-South and East-West Drainage Ditches near Hannah Rd.
  - Removing 6 inches of soil from two isolated areas east of Hannah Rd.


LEGEND
EG 10
LOCATION 3
LOCATION 1
LOCATION 2
LOCATION 4
33
EARTH TECH
WARNER ROBINS, GEORGIA
NORTH

LOCATION 1

LOCATION 2

LOCATION 3

LOCATION 4

KEY ACTIVITIES

- Mobilize
- Control water
- Excavate sediments
- Stabilize sediments
- Transport and dispose of sediments
- Restore areas and demobilize

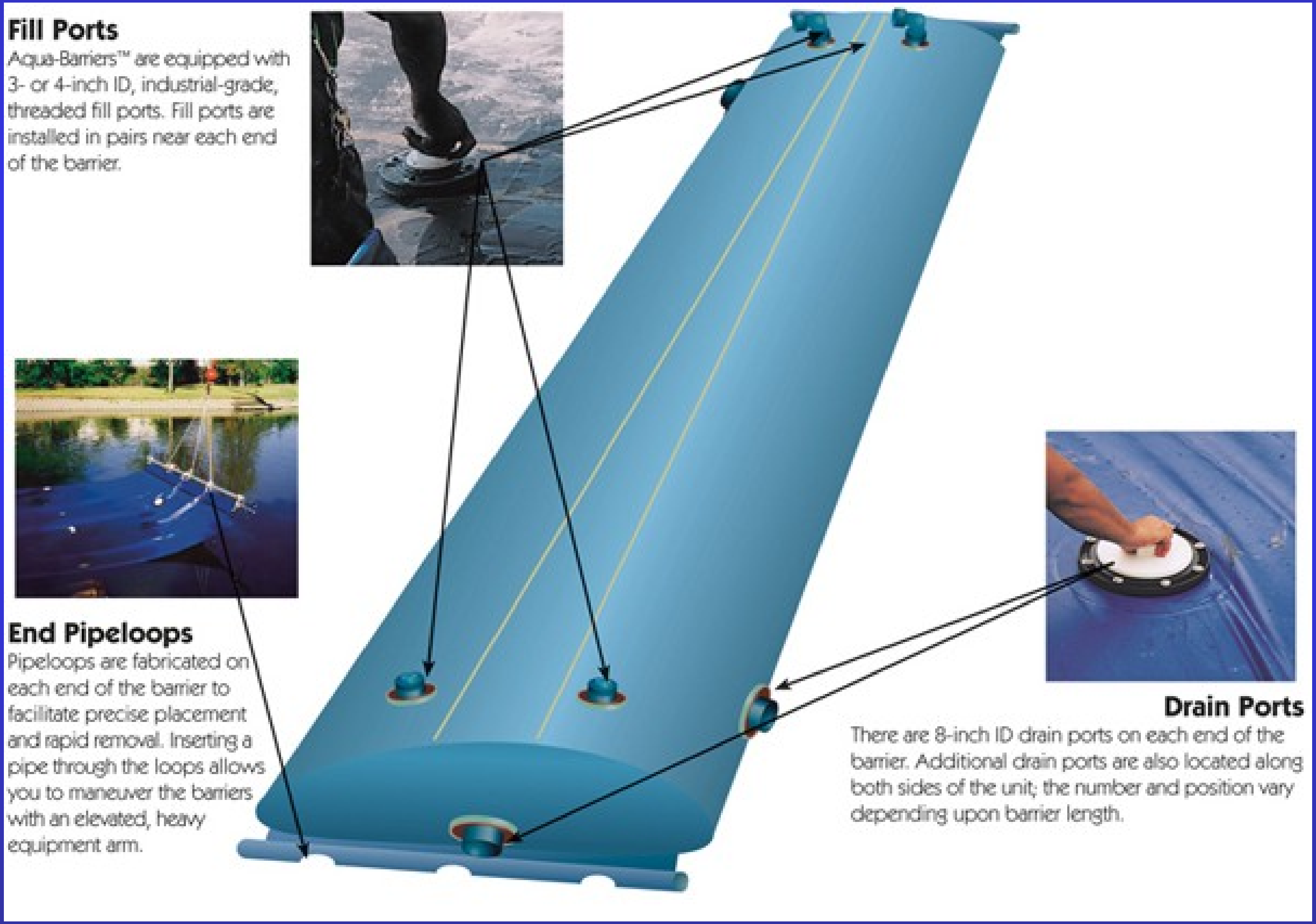
MOBILIZE

- Coordinate with state and Army Corps of Engineers on soil & sediment control
- Establish site layout
- Set up support facilities
- Install erosion and sedimentation control measures
- Receive materials

CONTROL WATER

- Block selected drainage culverts
- Isolate Locations 1 and 2 with Aqua-Barriers®
- Construct temporary soil berms to isolate Location 3
- Install temporary piping to by-pass water around Location 3 after Locations 1 and 2 excavated
- Use temporary pumps as needed

AQUA-BARRIER®



Fill Ports

Aqua-Barriers™ are equipped with 3- or 4-inch ID, industrial-grade, threaded fill ports. Fill ports are installed in pairs near each end of the barrier.

End Pipeloops

Pipeloops are fabricated on each end of the barrier to facilitate precise placement and rapid removal. Inserting a pipe through the loops allows you to maneuver the barriers with an elevated, heavy equipment arm.

Drain Ports

There are 8-inch ID drain ports on each end of the barrier. Additional drain ports are also located along both sides of the unit; the number and position vary depending upon barrier length.

EXCAVATE SEDIMENT

- Use normal and long-reach trackhoes and loader for Locations 1, 2, and 3
- Work from banks for Locations 1 and 2 and from mats or dikes for Location 3
- Use small equipment in Location 4 working off temporary planking through the wetland

LOCATIONS 1, 2, AND 3 EQUIPMENT

LOCATIONS 1, 2, AND 3 EQUIPMENT

LOCATION 4 EQUIPMENT

CAT
CAT
247B

STABILIZE FOR DISPOSAL

- Mix sediment with quicklime in-situ until passes the paint filter test
- Test as needed for disposal

TRANSPORT AND DISPOSE

- Load into transport vehicles
- Dispose at licensed Subtitle D landfill

RESTORE AREA AND DEMOBILIZE

- Re-establish pre-remediation drainage
- Remove temporary facilities for construction
- Grass disturbed areas around roadways and temporary facilities

SUMMARY

- Removes contaminated sediments from OU2 as required
- Restores existing drainage and disturbed areas

NPL Site Update

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Mr. Fred Otto, WR-ALC/EMR

June 10, 2004

NPL SITE OVERVIEW

- National Priorities List (NPL) site under CERCLA
- Includes Landfill 4 and Sludge Lagoon
- Divided into Operable Units (OUs)
  - OU1 = Source Areas
  - OU2 = Wetlands
  - OU3 = Groundwater

NPL SITE OVERVIEW

- OU2 being addressed under RCRA
- Record of Decision (ROD) being updated for OU1 and OU3

NPL SITE INTERIM ACTIONS

- OU1
  - Surface water diversion
  - Leachate collection system
  - Volatilization/excavation of Sludge Lagoon
  - Cover over Landfill 4 and Sludge Lagoon
  - Gas collection system
  - Institutional controls

NPL SITE INTERIM ACTIONS

- OU3
  - Groundwater extraction system
  - Groundwater treatment system
  - Monitoring

NPL SITE RECORD OF DECISION FOR OU1/OU3

- OU1
  - Land use controls
- OU3
  - Optimization of groundwater extraction system
  - Evaluation of extraction system
  - Annual monitoring
  - Land use controls
- 5-Year review

NPL SITE RECORD OF DECISION STATUS

- Proposed plan - 1999
- Draft ROD - 2000
- Dispute over land use controls 2001 - 2003
  - National policy dispute between DOD and EPA
  - Still agreed to and implemented groundwater extraction remedy

NPL SITE
RECORD OF DECISION STATUS

- Agreed in principle on land use controls – Oct 2003
- Revised ROD – Dec 2003
- EPA comments – Feb 2004
- ROD signature anticipated late 2004

NPL SITE SUMMARY

- Groundwater extraction
- Groundwater plume being reduced
- Treatment plant awards
- Maintenance of cover
- Institutional controls
- ROD being updated

Environmental Awards

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Mr. Steve Coyle, WR-ALC/EM

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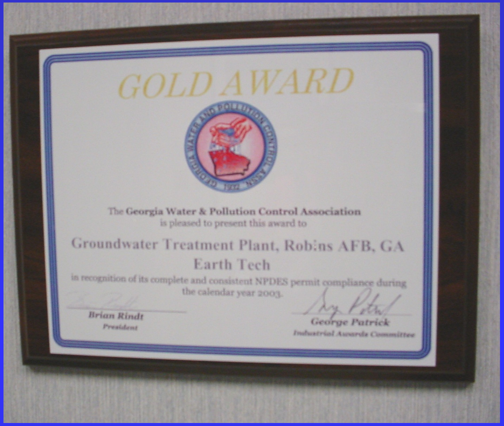
GROUNDWATER TREATMENT PLANT (GWTP) GOLD AWARD

- Georgia Water & Pollution Control Association (GW&PCA)
- Second year in a row
- Fourth major GW&PCA award in two years - others include:
  - "Best in State" Award
  - Public Education Award
  - Safety Award



GOLD AWARD

The **Georgia Water & Pollution Control Association**
is pleased to present this award to

Groundwater Treatment Plant, Robins AFB, GA
Earth Tech

in recognition of its complete and consistent NPDES permit compliance during the calendar year 2003.

Brian Rindt
President

George Patrick
Industrial Awards Committee

GROUNDWATER TREATMENT PLANT

- Key accomplishments
  - Annual TCE mass removal more than doubled previous year's total
  - Milestone of *one billion treated gallons* of groundwater reached by the GWTP in 2003
  - Fifth continuous year of operation with no Notice of Violation
  - Community involvement
  - No lost-time accidents EVER

2003 POLLUTION PREVENTION AWARDS

- Air Force General Thomas D. White
  - Pollution Prevention – Industrial Category
- Secretary of Defense
  - Pollution Prevention – Industrial Category
- White House Closing the Circle
  - Waste / Pollution Prevention Category

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Restoration Advisory Board

New Business and Program Closing

Mr. Jim Harden

Community Co-Chair

Next RAB Meeting

September 9, 2004

Please…

- Complete *meeting evaluation and feedback form* and either leave at your place or give it to Ms. Logue.
- Recycle your name tag and lanyard by leaving them at your place… We will collect and reuse them at the next RAB meeting.

Thank you!